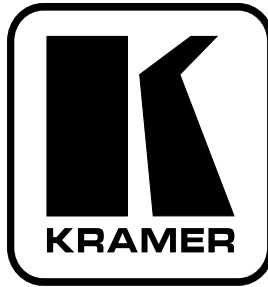


Kramer Electronics, Ltd.



USER MANUAL

Wall Plate Models:

SV-301

SV-302

SV-303

SV-304

SV-305

Contents

| | | |
|----------|---|-----------|
| 1 | Introduction | 1 |
| 2 | Getting Started | 1 |
| 3 | Overview | 2 |
| 4 | Defining the Wall Plates (for the United States) | 3 |
| 4.1 | SV-301 and SV-302 (for the United States) | 3 |
| 4.2 | SV-303, SV-304, and SV-305 (for the United States) | 4 |
| 5 | Defining the Wall Plates (for Europe) | 6 |
| 5.1 | SV-301 and SV-302 (for Europe) | 6 |
| 5.2 | SV-303, SV-304, and SV-305 (for Europe) | 7 |
| 6 | Wiring the Rear Panel Connectors | 9 |
| 6.1 | Wiring the CAT 5 LINE IN / LINE OUT RJ-45 Connectors | 9 |
| 6.2 | Wiring the CAT 5 LINE IN / LINE OUT Terminal Block Connectors | 10 |
| 7 | Summary of Recommended Cables | 11 |

Tables

| | |
|--|----|
| Table 1: Defining the SV-301 and SV-302 (for the U.S.) | 3 |
| Table 2: Defining the SV-303, SV-304 and SV-305 (for the U.S.) | 4 |
| Table 3: Defining the SV-303, SV-304, SV-305 Rear (for the U.S.) | 5 |
| Table 4: Enclosing a Wall Plate (for the U.S.) in its Plastic Frame | 5 |
| Table 5: Defining the SV-301 (for England and Europe) | 6 |
| Table 6: Defining the SV-302 (for England and Europe) | 6 |
| Table 7: Defining the SV-303 (for England and Europe) | 7 |
| Table 8: Defining the SV-304 (for Europe) | 7 |
| Table 9: Defining the SV-305 (for Europe) | 8 |
| Table 10: CAT 5 PINOUT (for the USA) | 9 |
| Table 11: Terminal Block Connector PINOUT (for Europe) | 10 |
| Table 12: Cables for use with the SV-301/SV-302/SV-303/SV-304/SV-305 | 11 |

1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront the video, audio, presentation, and broadcasting professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better! Our 1,000-plus different models now appear in 11 groups¹ that are clearly defined by function.

Congratulations on purchasing your Kramer **SV-301, SV-302, SV-303, SV-304**, and/or **SV-305** wall plate device. Each is designed to work as an integral part of Kramer's A/V *SummitView™ Standard Kit* and the *SummitView™ Essentials Kit* or as a standalone product controlled via a room controller—**RC-63DL, RC-62P, RC-62L, RC-63AL, RC-63AP**, or **RC-63DP**²—in a multimedia classroom or conference room.

The package includes:

- One of the following items: **SV-301, SV-302, SV-303, SV-304**, or **SV-305**
- This user manual²

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original boxes and packaging materials for possible future shipment
- Review the contents of this user manual
- Use Kramer high performance high resolution cables³, as recommended in section 7

1 GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Twisted-Pair Solutions; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters; GROUP 11: Sierra Products

2 Download the user manual at: <http://www.kramerelectronics.com>

3 The complete list of Kramer cables is on our Web site at <http://www.kramerelectronics.com>

3 Overview

This user manual describes the:

- **SV-301 and SV-302**—provided as the default wall plate devices with the *SummitView™ Standard Kit* and the *SummitView™ Essentials Kit* and described in that user manual, as well as in sections 4.1 (the U.S. version) and 5.1 (the European version)
- **SV-303, SV-304 and SV-305** in sections 4.2 (the U.S. version) and 5.2 (the European version)

To achieve the best performance:

- Connect only good quality connection cables, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise-levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances and position your *Kramer Wall Plate* away from moisture, excessive sunlight and dust



Caution – No operator-serviceable parts inside unit.

Warning – Use only the Kramer Electronics input power wall adapter that is provided with this unit¹.

Warning – Disconnect power and unplug unit from wall before installing or removing device or servicing unit.

¹ For example: model number AD2512C, part number 2535-000251

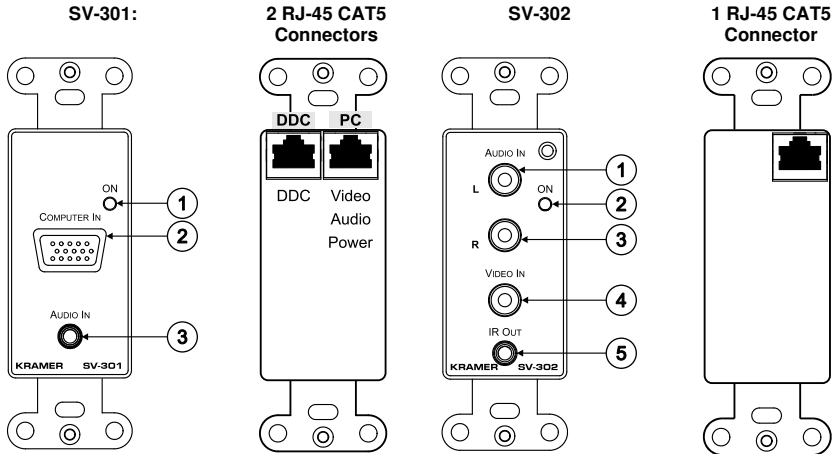
4 Defining the Wall Plates (for the United States)

Section 4.1 defines the **SV-301** and **SV-302**, and section 4.2 defines the **SV-303**, **SV-304** and **SV-305**.

4.1 SV-301 and SV-302 (for the United States)

Table 1 defines the front and rear views of the **SV-301** and **SV-302**:

Table 1: Defining the SV-301 and SV-302 (for the U.S.)



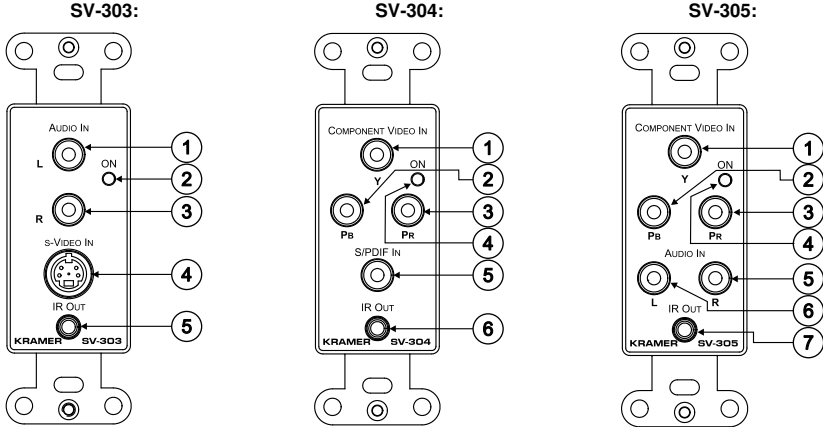
| # | Feature | Function |
|---|---------------------------------|--|
| 1 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 2 | COMPUTER IN 15-pin HD Connector | Connect to the computer graphics source |
| 3 | AUDIO IN 3.5mm Mini Plug | Connects to the audio source |

| # | Feature | Function |
|---|--------------------------|--|
| 1 | L AUDIO IN RCA Connector | Connect to the left analog audio source |
| 2 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 3 | R AUDIO IN RCA Connector | Connect to the right analog audio source |
| 4 | VIDEO IN RCA Connector | Connect to the composite video source |
| 5 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

4.2 SV-303, SV-304, and SV-305 (for the United States)

Table 2 and Table 3 define the front and rear views of the **SV-303**, **SV-304** and **SV-305**, respectively:

Table 2: Defining the SV-303, SV-304 and SV-305 (for the U.S.)



| # | Feature | Function |
|---|--------------------------|--|
| 1 | L AUDIO IN RCA Connector | Connect to the left analog audio source |
| 2 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 3 | R AUDIO IN RCA Connector | Connect to the right analog audio source |
| 4 | s-VIDEO IN 4p Connector | Connect to the s-Video source |
| 5 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

| # | Feature | Function |
|---|-----------------------------------|--|
| 1 | COMPONENT VIDEO IN RCA Connectors | Y Connect to the component video source |
| 2 | | PB |
| 3 | | PR |
| 4 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 5 | S/PDIF IN RCA Connector | Connect to the digital audio source |
| 6 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

| # | Feature | Function |
|---|-----------------------------------|--|
| 1 | COMPONENT VIDEO IN RCA Connectors | Y Connect to the component video source |
| 2 | | PB |
| 3 | | PR |
| 4 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 5 | R AUDIO IN RCA Connector | Connect to the right analog audio source |
| 6 | L AUDIO IN RCA Connector | Connect to the left analog audio source |
| 7 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

Table 3: Defining the SV-303, SV-304, SV-305 Rear (for the U.S.)

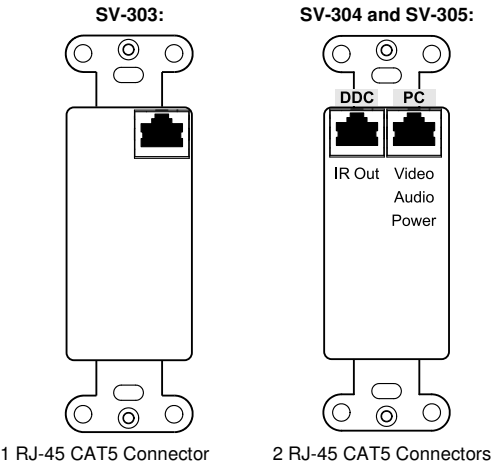
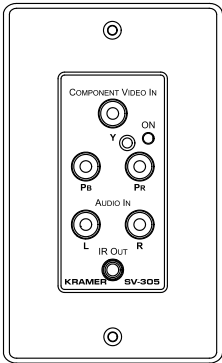


Table 4 defines the **SV-305**, as an example, in its plastic frame:

Table 4: Enclosing a Wall Plate (for the U.S.) in its Plastic Frame¹



¹ Each model that is designed specifically for the US market fits inside a plastic frame

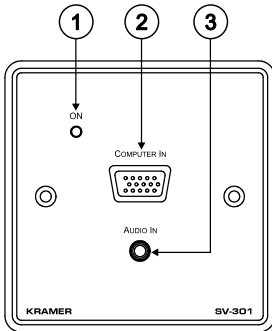
5 Defining the Wall Plates (for Europe)

Section 5.1 defines the **SV-301** and **SV-302**, and section 5.2 defines the **SV-303**, **SV-304** and **SV-305**.

5.1 SV-301 and SV-302 (for Europe)

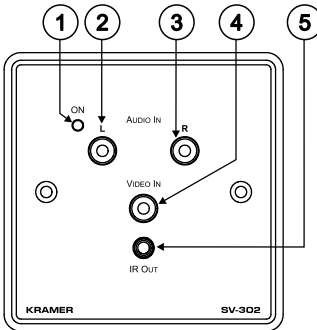
The **SV-301** and **SV-302** are 1 Gang wall plate inserts. The **SV-301** has two terminal block connectors at the rear and the **SV-302** has one.

Table 5: Defining the SV-301 (for England and Europe)¹



| # | Feature | Function |
|---|---------------------------------|--|
| 1 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 2 | COMPUTER IN 15-pin HD Connector | Connect to the computer graphics source |
| 3 | AUDIO IN 3.5mm Mini Plug | Connects to the audio source |

Table 6: Defining the SV-302 (for England and Europe)¹



| # | Feature | Function |
|---|--------------------------|--|
| 1 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 2 | L AUDIO IN RCA Connector | Connect to the left analog audio source |
| 3 | R AUDIO IN RCA Connector | Connect to the right analog audio source |
| 4 | VIDEO IN RCA Connector | Connect to the composite video source |
| 5 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

¹ When mounting in Belgium and Germany, use the standard WP Adapter

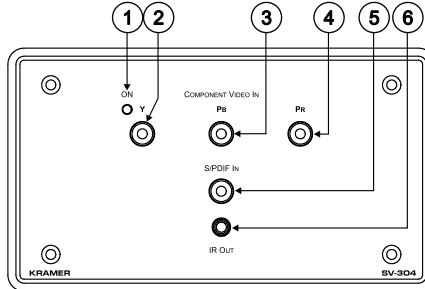
5.2 SV-303, SV-304, and SV-305 (for Europe)

The **SV-303** is a 1 Gang wall plate insert with one RJ-45 CAT5 connector at the rear. The **SV-304** and **SV-305** are 2 Gang wall plate inserts with two RJ-45 CAT 5 connectors at the rear (available in a single version for Europe).

Table 7: Defining the SV-303 (for England and Europe)¹

| # | Feature | Function |
|---|--|--|
| 1 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 2 | L AUDIO IN RCA Connector | Connect to the left analog audio source |
| 3 | R AUDIO IN RCA Connector | Connect to the right analog audio source |
| 4 | s-VIDEO IN 4p Connector | Connect to the s-Video source |
| 5 | IR OUT 3.5mm Mini Plug Connector | Connect to a machine via an IR Emitter |

Table 8: Defining the SV-304 (for Europe)

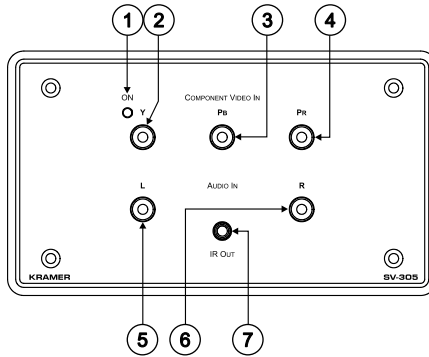


| # | Feature | Function |
|---|--------------------------------------|--|
| 1 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 2 | COMPONENT VIDEO IN RCA Connectors | Connect to the component video source |
| 3 | | |
| 4 | | |
| 5 | S/PDIF IN RCA Connector | Connect to the digital audio source |
| 6 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

¹ When mounting in Belgium and Germany, use the standard WP Adapter

Defining the Wall Plates (for Europe)

Table 9: Defining the SV-305 (for Europe)



| # | Feature | Function |
|---|--------------------------------------|--|
| 1 | ON LED | Lights in RED when receiving power (when no signal is detected); lights in GREEN when receiving a signal |
| 2 | COMPONENT VIDEO IN RCA Connectors | Connect to the component video source |
| 3 | | |
| 4 | | |
| 5 | L AUDIO IN RCA Connector | Connect to the left analog audio source |
| 6 | R AUDIO IN RCA Connector | Connect to the right analog audio source |
| 7 | IR OUT 3.5mm Mini Plug | Connect to a machine via an IR Emitter |

6 Wiring the Rear Panel Connectors

STP cabling of 50' (15.24m)¹ in length is provided with the Kramer A/V *SummitView™ Standard Kit* and the *SummitView™ Essentials Kit*². When required, longer STP cabling can be used when purchased for stand alone wall plates but we recommend a maximum transmission range of up to 100' (30.48m). Exceeding the recommended distance may result in reduced image quality.

This section describes how to connect the rear panel for the:

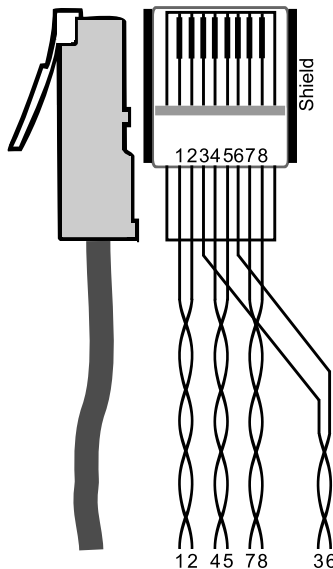
- US wall plate versions (see section 6.1)
- European wall plate versions (see section 6.2)

6.1 Wiring the CAT 5 LINE IN / LINE OUT RJ-45 Connectors

The US versions of the SV wall plates are equipped with RJ-45 terminals. Table 10 defines the STP CAT 5 PINOUT, using a straight pin to pin cable with RJ-45 connectors:

Table 10: CAT 5 PINOUT (for the USA)

| EIA / TIA 568B | |
|----------------|----------------|
| PIN | Wire Color |
| 1 | Orange / White |
| 2 | Orange |
| 3 | Green / White |
| 4 | Blue |
| 5 | Blue / White |
| 6 | Green |
| 7 | Brown / White |
| 8 | Brown |
| | |
| Pair 1 | 4 and 5 |
| Pair 2 | 1 and 2 |
| Pair 3 | 3 and 6 |
| Pair 4 | 7 and 8 |



¹ Plenum-rated for the SummitView™ US version; non-plenum for the SummitView™ Europe

² Or should be purchased separately for a stand alone machine, see Table 12 for reference

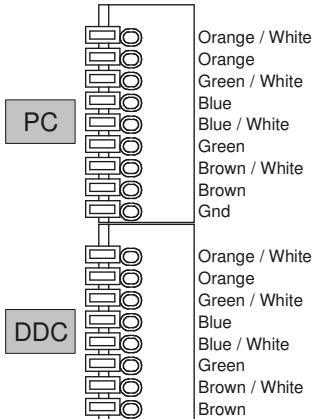
6.2 Wiring the CAT 5 LINE IN / LINE OUT Terminal Block Connectors

The European versions are equipped with an easy plug-in terminal for the CAT 5 cables. Use the color coded sticker on these terminals for proper connection of the CAT 5 cable.

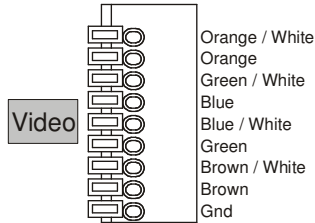
Table 11 defines the PINOUT of the terminal block connectors:

Table 11: Terminal Block Connector PINOUT (for Europe)

SV-301, SV-304, SV-305 Rear Panel PINOUT



SV-302, SV-303 Rear Panel PINOUT



Notes:

- The “PC” section has 9 PINs; the “DDC” section has 8 PINs. Only use the connector clips to remove the wires, not when inserting them
- Each wire protrudes 9mm in length from the plastic casing so that it can be easily connected. To prevent the wires crossing, be sure that each wire is completely inserted
- With STP cable, the Gnd pin is used for shielding. For the DDC channel, shielding is not needed, but if desired, connect the GND pin of the PC

7 Summary of Recommended Cables

Table 12 defines the cables that should be purchased for use with the **SV-301 / SV-302 / SV-303/ SV-304 / SV-305**:

Table 12: Cables for use with the SV-301/SV-302/SV-303/SV-304/SV-305

| Item | Description |
|--|--|
| SV-301 Cable set | |
| CP-STP-50 / C-STP-50 (2 cables ¹) ² | STP cable 50' (15.24m) |
| C-MGM/MGM-3 (1 cable) ³ | Molded Micro VGA to VGA cable 3' (0.91m) |
| SV-302 Cable set | |
| CP-STP-50 / C-STP-50 (1 cable ¹) ² | STP cable 50' (15.24m) |
| C-RVM/RVM-3 (1 cable) ³ | Molded RCA RG-59 video cable 3' (0.91m) |
| SV-303 Cable set | |
| CP-STP-50 / C-STP-50 (1 cable ¹) ² | STP cable 50' (15.24m) |
| C-SM/SM-3 (1 cable) ³ | Molded 4-PIN s-Video cable 3' (0.91m) |
| SV-304 Cable set | |
| CP-STP-50 / C-STP-50 (2 cables ¹) ² | STP cable 50' (15.24m) |
| C-R3VM/R3VM-3 (1 cable) ³ | 3 RCA Component cable (Male-Male) 3' (0.91m) |
| SV-305 Cable set | |
| CP-STP-50 / C-STP-50 (2 cables ¹) ² | STP cable 50' (15.24m) |
| C-R3VM/R3VM-3 (1 cable) ³ | 3 RCA Component cable (Male-Male) 3' (0.91m) |

1 There are two types of STP cable provided with SummitView™: CP-STP-50 (plenum-rated for the SummitView™ US) or C-STP-50 (non-plenum for the SummitView™ Europe)

2 Connect the Wall Plate to the SV-551

3 Connects the SV-551 to the projector

LIMITED WARRANTY

Kramer Electronics (hereafter *Kramer*) warrants this product free from defects in material and workmanship under the following terms.

HOW LONG IS THE WARRANTY

Labor and parts are warranted for seven years from the date of the first customer purchase.

WHO IS PROTECTED?

Only the first purchase customer may enforce this warranty.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed by Kramer, or which is not purchased from an authorized Kramer dealer. If you are uncertain as to whether a dealer is authorized, please contact Kramer at one of the agents listed in the Web site www.kramerelectronics.com.
2. Any product, on which the serial number has been defaced, modified or removed, or on which the WARRANTY VOID IF TAMPERED sticker has been torn, reattached, removed or otherwise interfered with.
3. Damage, deterioration or malfunction resulting from:
 - i) Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature
 - ii) Product modification, or failure to follow instructions supplied with the product
 - iii) Repair or attempted repair by anyone not authorized by Kramer
 - iv) Any shipment of the product (claims must be presented to the carrier)
 - v) Removal or installation of the product
 - vi) Any other cause, which does not relate to a product defect
 - vii) Cartons, equipment enclosures, cables or accessories used in conjunction with the product

WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. We will not pay for the following:

1. Removal or installations charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls or programming. These costs are the responsibility of the Kramer dealer from whom the product was purchased.
3. Shipping charges.

HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on you product, you must take or ship it prepaid to any authorized Kramer service center.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage, and should be included in any shipment of the product. Please also include in any mailing a contact name, company, address, and a description of the problem(s).
3. For the name of the nearest Kramer authorized service center, consult your authorized dealer.

LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

The liability of Kramer for any effective products is limited to the repair or replacement of the product at our option. Kramer shall not be liable for:

1. Damage to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or:
2. Any other damages, whether incidental, consequential or otherwise. Some countries may not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from place to place.

NOTE: All products returned to Kramer for service must have prior approval. This may be obtained from your dealer.

This equipment has been tested to determine compliance with the requirements of:

- EN-50081: "Electromagnetic compatibility (EMC);
generic emission standard.
Part 1: Residential, commercial and light industry"
- EN-50082: "Electromagnetic compatibility (EMC) generic immunity standard.
Part 1: Residential, commercial and light industry environment".
- CFR-47: FCC Rules and Regulations:
Part 15: "Radio frequency devices
Subpart B Unintentional radiators"

CAUTION!

- ☒ Servicing the machines can only be done by an authorized Kramer technician. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void user authority to operate the equipment.
- ☒ Use the supplied DC power supply to feed power to the machine.
- ☒ Please use recommended interconnection cables to connect the machine to other components.



For the latest information on our products and a list of Kramer distributors, visit our Web site: www.kramerelectronics.com, where updates to this user manual may be found. We welcome your questions, comments and feedback.



Caution

Safety Warning:

Disconnect the unit from the power supply before opening/servicing.



Kramer Electronics, Ltd.

Web site: www.kramerelectronics.com

E-mail: info@kramerel.com

P/N: 2900-000474 REV 1